

## **Abstract**

**Title:** Quantification of stroke cycles in breaststroke disciplines of top swimmers.

**Objectives:** The aim of the desertation is to record the video clips breaststroke disciplines in category of men on czech swimming Championship 2013 and to record the number of stroke cycles of top swimmers at national, Europien and globe level, based on indirect observation. The observation is made in 50m, 100m and 200m breaststroke. Furthermore, the results from each discipline are compared.

**Methods:** Quantitatification and indirect observation method were used to acquire dates in form of the number of stroke cycles. Mathematical- statistical method is used to process obtained data. Tables are used to overall assessment. Compare method was used in numbers of stroke cycles between choosed competitive swimmers.

**Results:** Results represent and compare the numbers of stroke cycles between selected national, European and global level swimmers at 50m, 100m and 200m breaststroke. The measured indicator is the number of strokes. The results show, that the optimal code of the number of strokes, which provide the personal best performance, cannot be built by the results.

**Keywords:** Stroke, Breaststroke, video clip